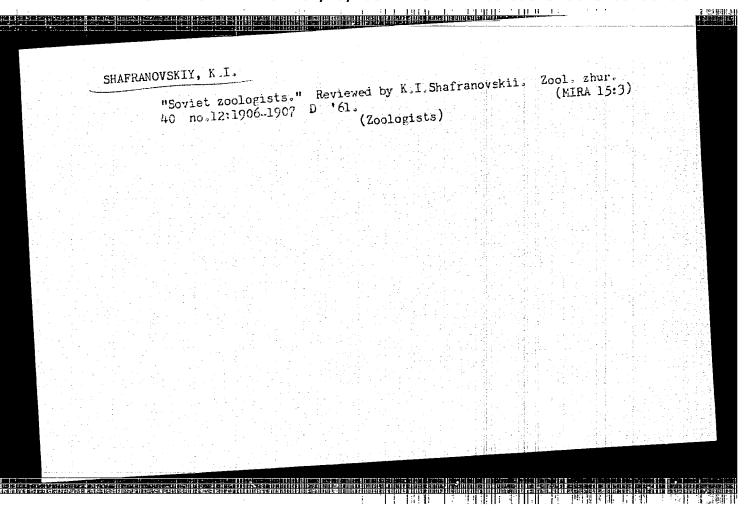
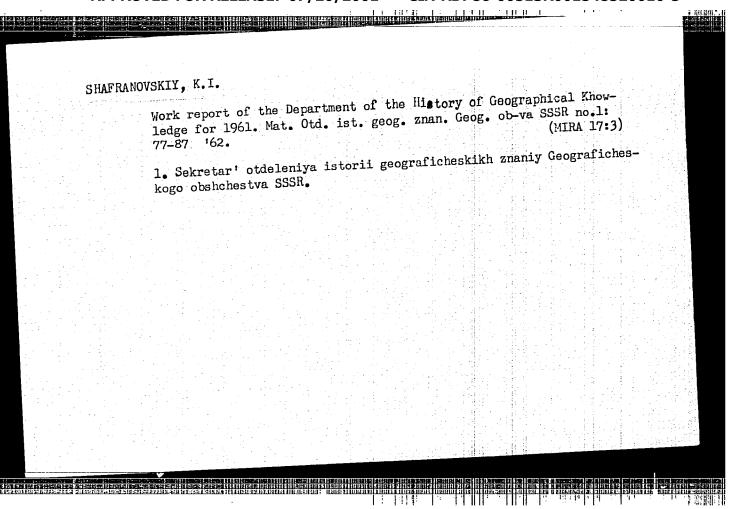
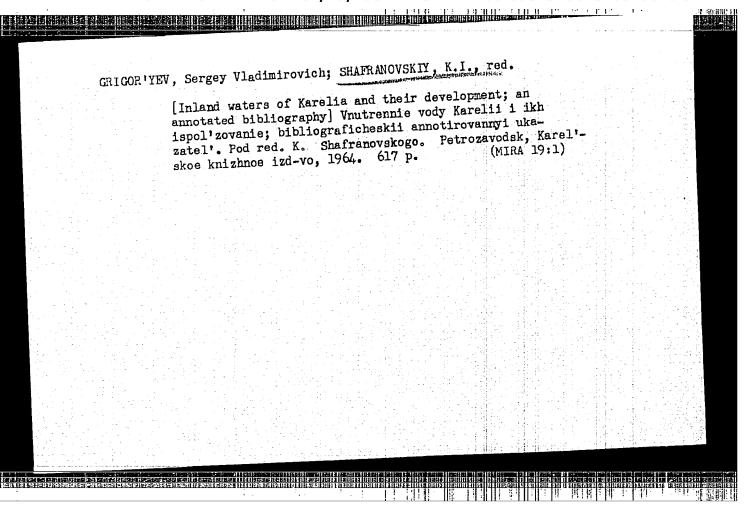
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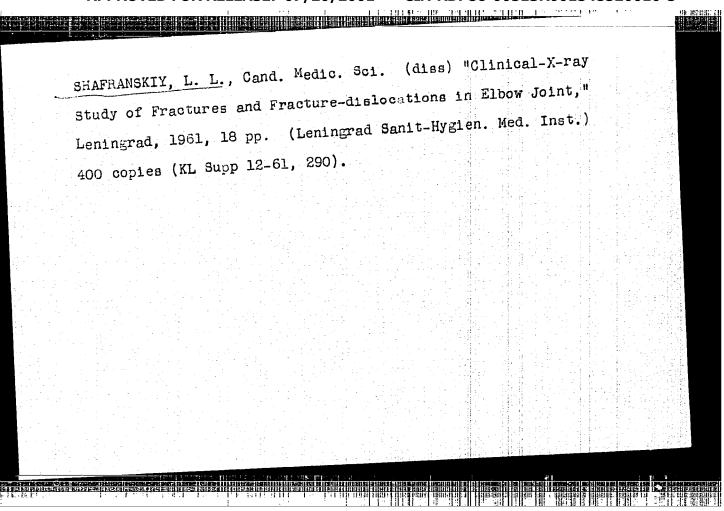
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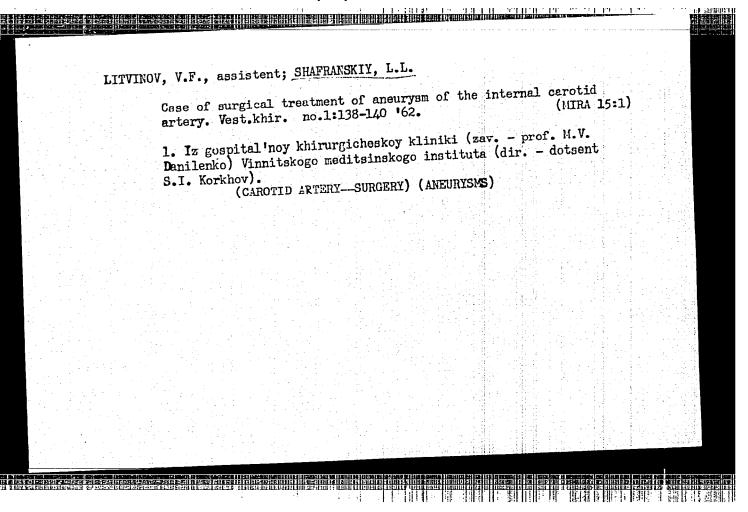
1. Akademiya nauk SSSR. Biblioteka. (Chernyshev, Feodosii Nikolaevich, 1856-1914) (Bibliography--Geology)







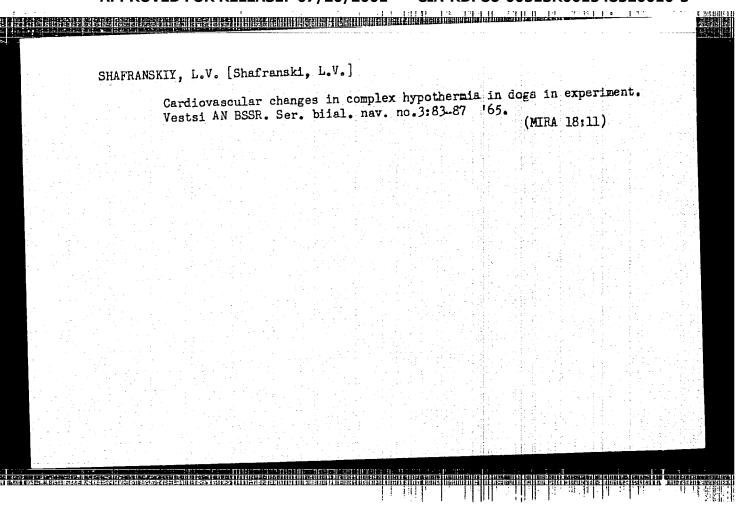


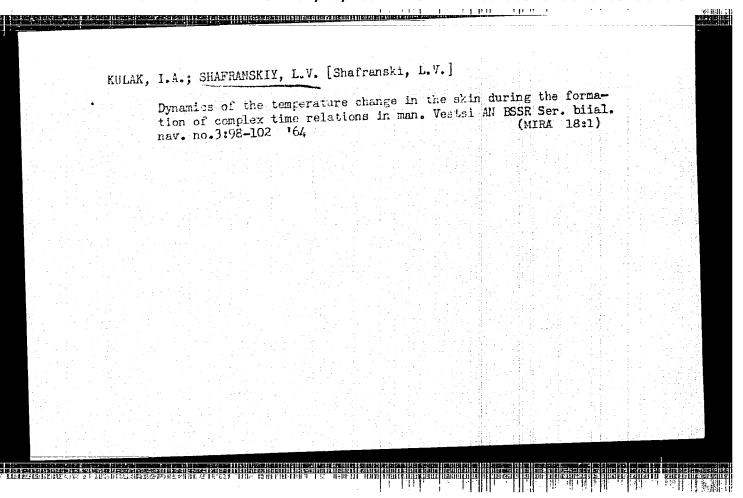


GARNISH, A.M.; SHAFRANSKIY, L.M.; DANILOVA, A.G.; KUZ'MINA, V.A.; Prinimali uchastiye: ZVEZDINA, E.A.; ISHCHERIKOVA, G.A.

Obtaining acrolein from a propane-propylene fraction. Nefteper. i neftekhim. no.10:26-28 '63. (MITA 17:2)

1. Novokuybyshevskiy filial Nauchno-iesledovatel skogo instituta sinteticheskikh spirtov.





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35934	formy prirodnogo rastvoreniya kuartsa. mineral. (1'vov), No. 3, 1949, S. 53-61-bibliogr: 7 nazv.	<b>sb</b> ornik		
	SO: Letopis' Zhurnal'nykh Statey, No. 49, 1949			
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SHAPRANOVSKIY, Sergey Aleksandrovich, inshener; PEREVERZEV, Nikolay

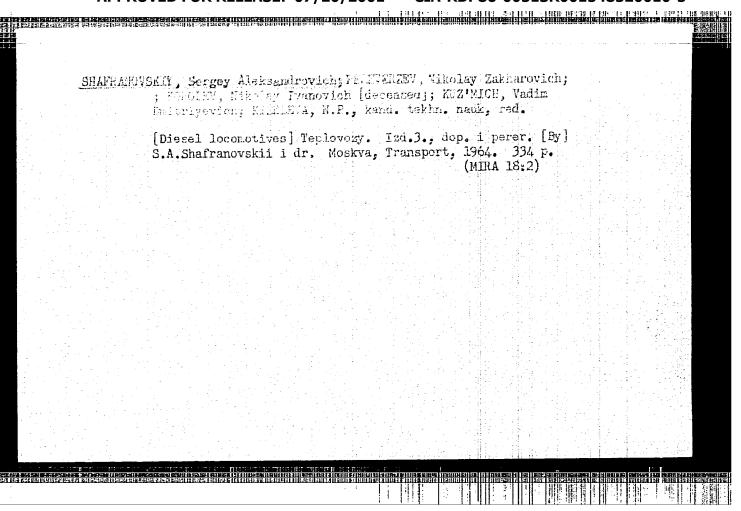
Zarharovich, Inshener; KORGLEV, Bikolay Ivanovich, inshener;

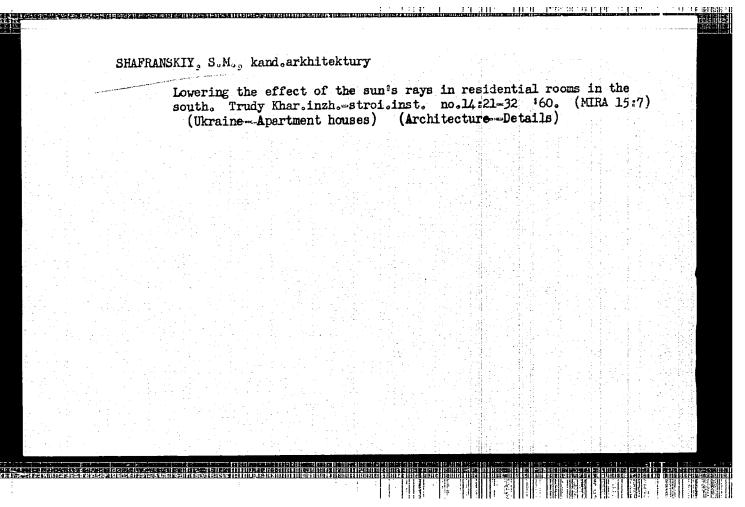
WOUDIE, A.I., kandidat tekhnicheskikh msuk, redaktor; TEUL
WOV, P.M., inshener, redaktor; VERIEA, G.P., tekhnicheskiy

redaktor.

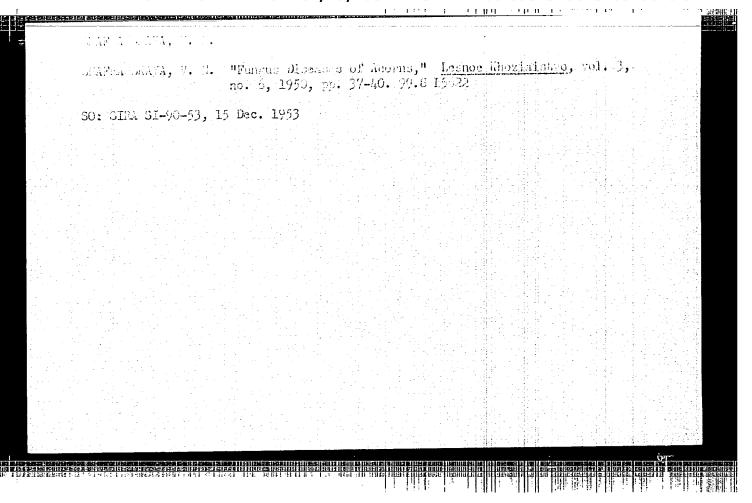
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vozy; konstruktsiia, raschety i remont. Izd.2-e. perer. Noskva.
Gos. transportnes shel-dor. izd-vo. 1955. 555 p.

(Diesel locomotives)





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Countary Category : Plant Diseases. Diseases of Forest Species.

Abs. Jour .: Ref. Zhur.-Biologiya No. 11, 1958, No. 49227

Author

Author : Shafrenskaya. V.N.
Institute: The All-Union Scientific Research Inst. of Forestry Title

: The Susceptibility of Different Larch Species to

Fungus Disease Caused by Meria laricis V.

Grig. Pub.: Byul. nauchn.-tekhn. inform. Vees. n.-i. in-t

lesovodstva i mekheniz. lesn. kh-va, 1957, No. 4,

Abstract :

The author's investigations in 1954-1956 showed a universal occurrence of M. laricis in Moskovskaya and Kalininakaya Oblasts in the Belorussian SSR and Tatar ASSR. Differences in susceptibility to the disease in individual lerch species was ascertained. Within the range of one and the same species, the geographic origin of the seeds can

Card: 1/2

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R001548520010-5"

: USSR Country Category : Plant Diseases. Diseases of Forest Species.

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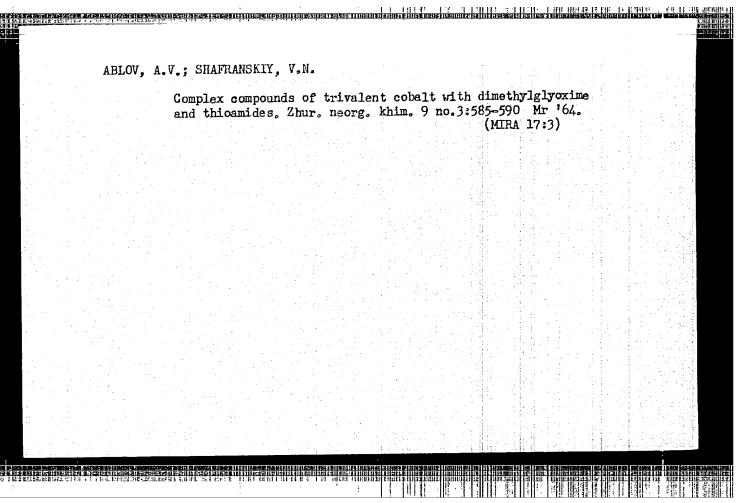
Author Institute: Title

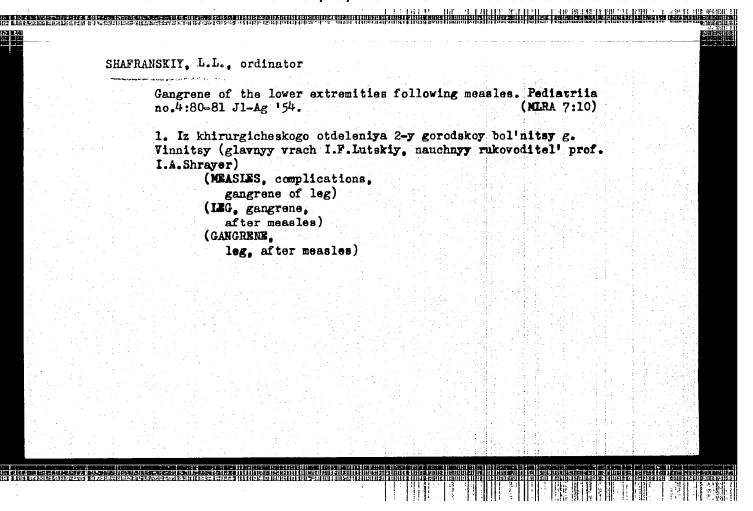
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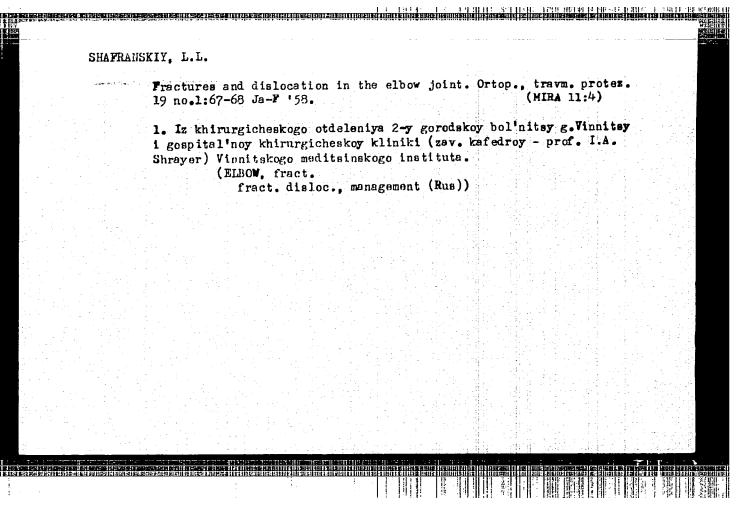
Abstract : can influence the disease's development. In all larch species infection of the assimilation apparatus retards growth and development in the plants .-- G.A. D'yakova

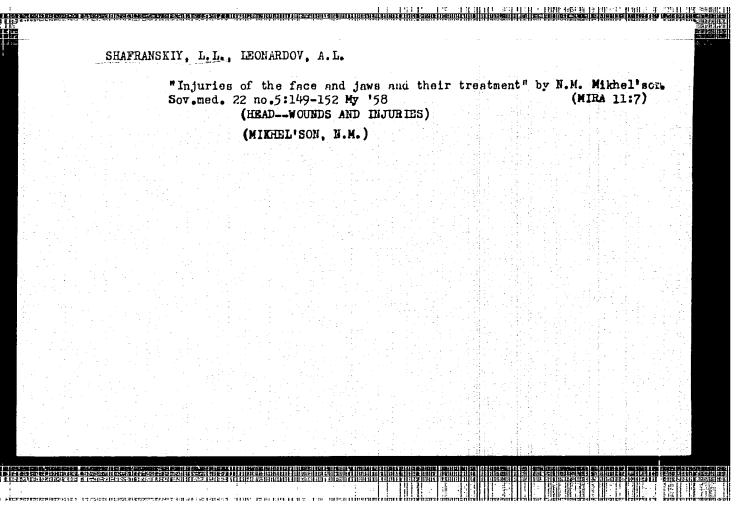
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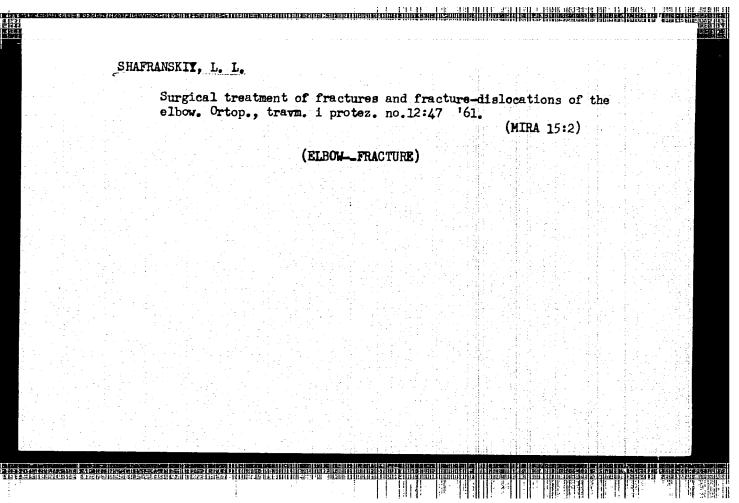


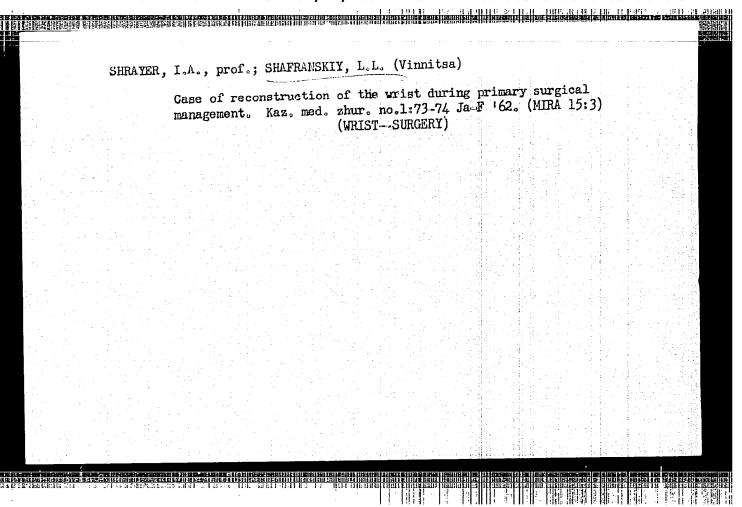


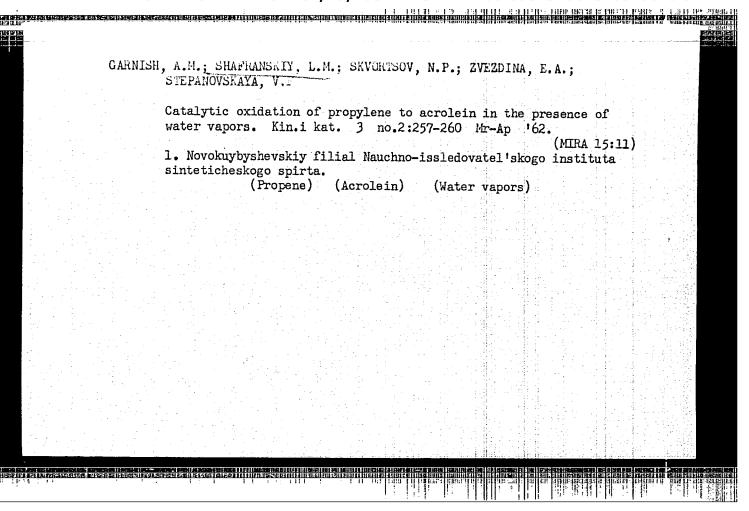




# SHAFRANSKIY, L. L. (Vinnitsa) Perforated asymptomatic gastric ulcer caused by a cherry seed. Klin. (MIRA 12:12) 1. Iz khirurgicheskogo otdeleniya 2-y gorodskoy bol'nitsy Vinnitsy i gospital'noy khirurgicheskoy kliniki (zav. - doktor meditsinskikh nauk M. V. Danilenko) Vinnitskogo meditsinskogo instituta. (STOMACH--ULCERS)







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S/118/61/000/008/001/005 D267/D304

AUTHOR:

Shafranskiy, P.F., Engineer

TITLE:

Metal-working lathes with program control

PERIODICAL:

Mekhanizatsiya 1 avtomatizatsiya proizvodstva,

no. 8, 1961, 13 - 17

TEXT: The article discusses some machine tools fitted with various types of program control. The 1 7318 (1P318) and 1T326 (1P326) turret lathes are fitted with program-track control and are intended for the automatic machining of parts from bar. The system involves controllable executive mechanisms and checking elements for automating idle and operative travel of the supports and for checking the extent of such travel. The kinematic system of the modernized lathes is illustrated and described, and an account is given of the machining process, the method of setting up the lathes and the economic efficacy of the programming device. The "Gerbert 2S"

Card 1/2

Metal-working lathes ...

S/118/61/000/008/001/005 D267/D304

turret lathe is fitted with a program-track control and is intended for machining parts from bar or from individual blanks. The system involves the use of pneumatic and hydraulic executive mechanisms for traverse and travel. The  $T\Pi$ -1 (TP-1),  $T\Pi$ -1M (TP-1M), 1616 and 1A62M(1D62M) screw-cutting lathes are fitted with a digital system of program control using binary calculation and punched cards. Details of the control system are given together with data on the efficiency and productivity of the automated lathes. Research is in progress for the introduction of milling machines fitted with the 6M 13  $\Pi$ P-3 (6N13Pr-3) program control. Here the machining program is recorded on tape and the lathes' operating mechanisms are driven by stepping motors and hydraulic amplifiers. There are 4 figures.

Card 2/2

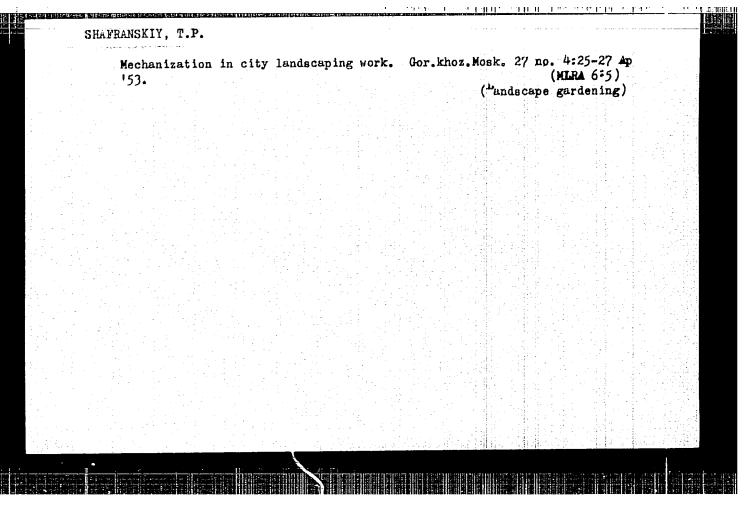
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Monthly List of Russian Accessions, Library of Congress, Cctober 1952. Unclassified.



SHAFRANSKIY, T.P., starshiy nauchnyy sotrudnik.

Transplanting trees and bushes in winter. Gor.khoz.Mosk. 30 no.11:28-31 N '56.

1. Akademiya kommunal'nogo khozyaystva imeni K.S.Pamfilova.

(Moscow.--Tree planting)

SHAFRANSKIY, T. P. Cand Agr Sci -- (diss) "A Study of the two follows of Arransplanting the Decorative and Traixers Fruit-Bearing and Shrubs the Trees in Traixers Foliated State." Mos, 1957. 18 pp 20 cm. (Mos Order of Lenin Agricultural Academy im K. A. Timiryazev), 110 copies, (KL, 17-57, 98)

SHAFRANDKY, T

USSR/Cultivated Plants - Decorative.

: Ref Zhur - Biol., No 3, 1958, 11122

Author

Shafranskiy, T.

Inst

Title

Crown Formation of Trees and Shrubs in Decorative

Gardening.

Orig Pub

: Zhil.-kommun, kh-vo, 1957, No 4, 7-11.

Abstract : The tree varieties are indicated which can undergo rejuvenation: easily, with difficulty, and which cannot take rejuvenation. An enumeration is given of the five most suitable tree varieties and eight most suitable varieties of bushes for decorative pruning. A scheme is set out of the different ways to prune a live hedge.

Card 1/1

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R001548520010-5"

The summer transplanting of trees and shrubs. Zhi.-kom. khoz.

7 no.6:21-23 (Trees) (Shrubs) (MIRA 10:10)

COUNTRY

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CATEGORY

: Gultivated Flants. Ornamentai.

ABS. JOUR. : RZhBiol., No. 23, 1958, No.104907

AUTHOR

INST.

TITLE

: Transplanting Trees and Shrubs in Summer in Cities,

2nd Adition, Corrected and Jupplemented.

ORIG. PUB. : M., LOvo kommun. kh-va durud, 1958, 122 str., 111.

ABSTPACT

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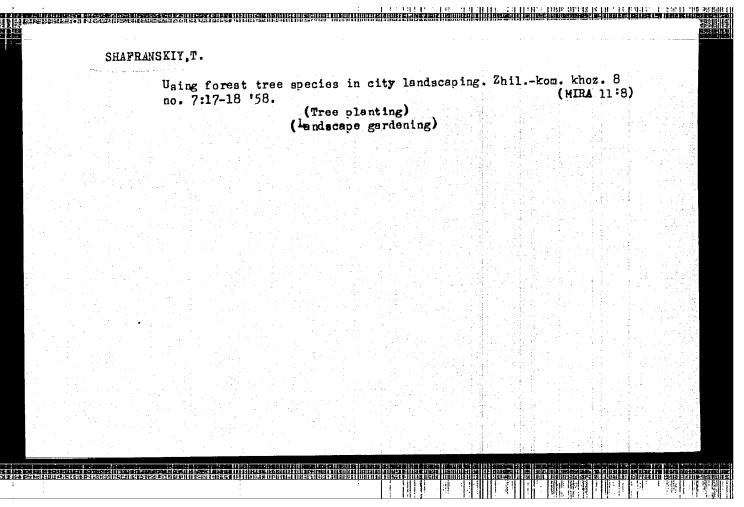
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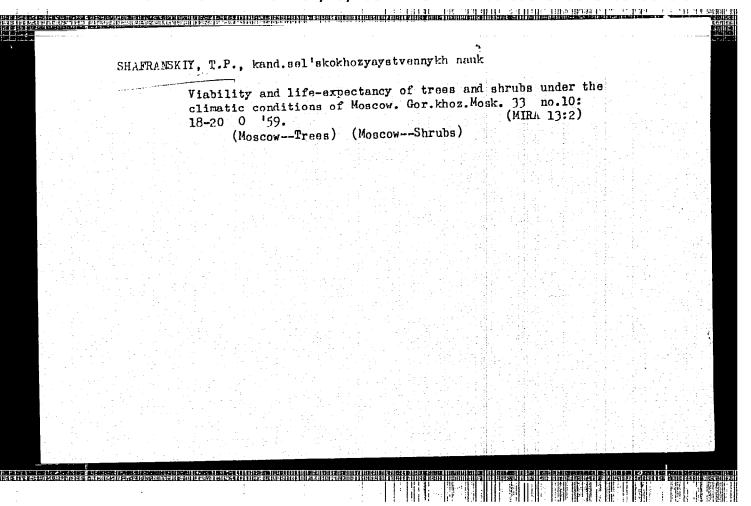
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Greenery in Vologda. Zhil.-kom. khor. 8 no.2:21-22 158. (MIRA 11:2)

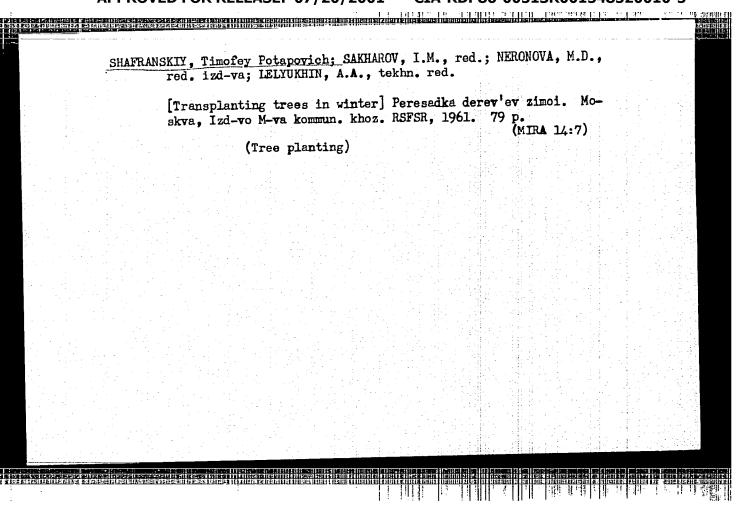
(Vologda--Landscape gardening)

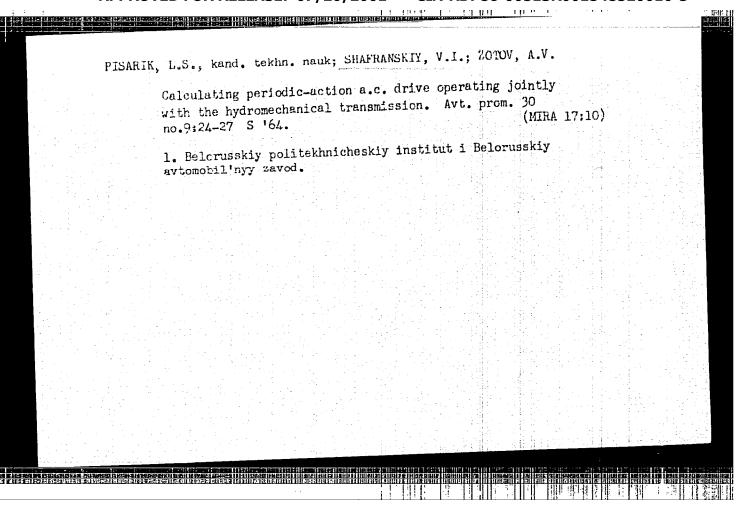


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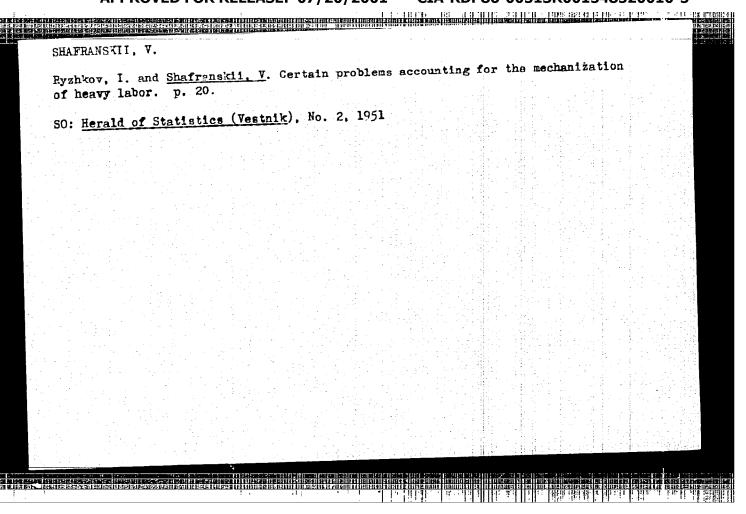


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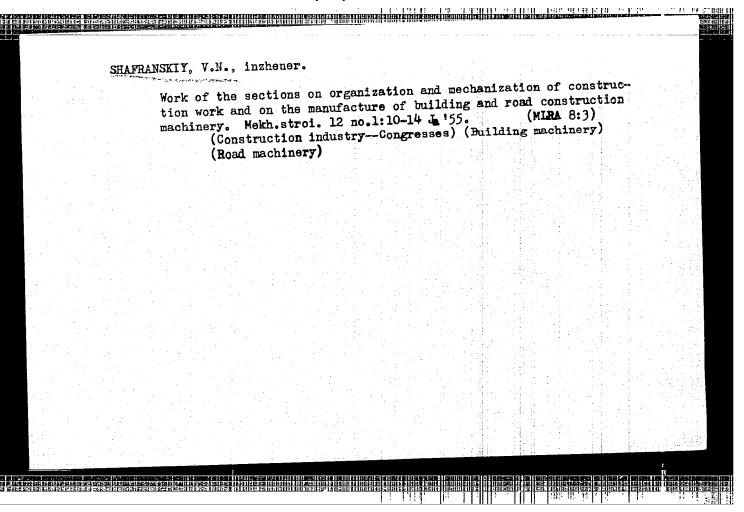


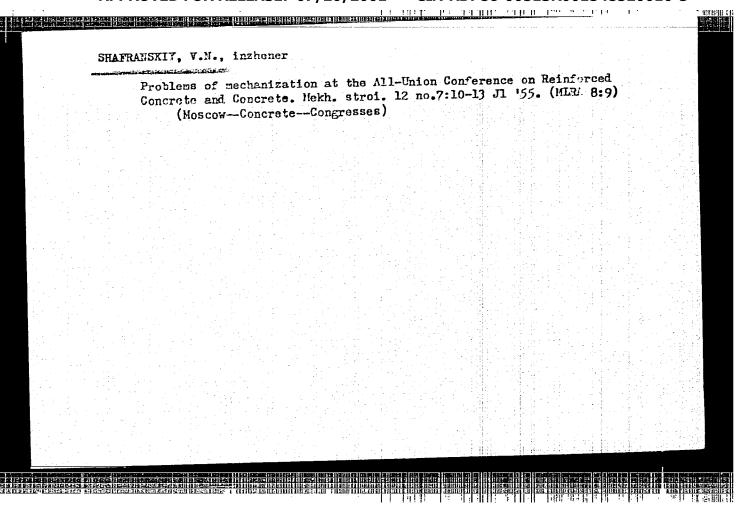
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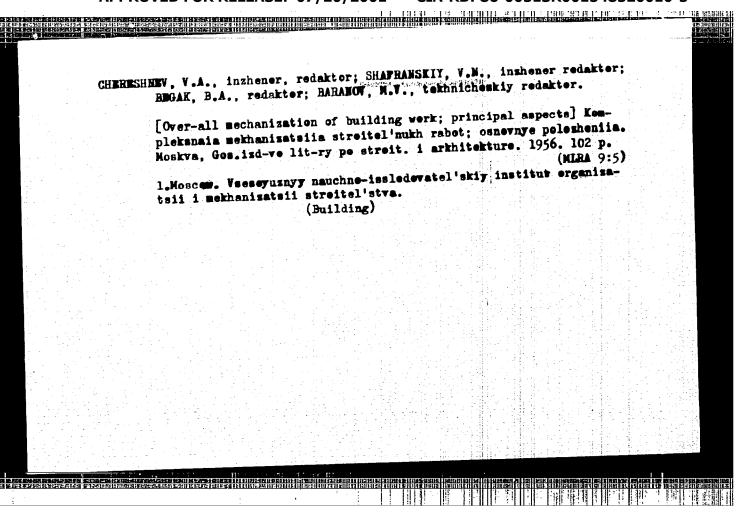


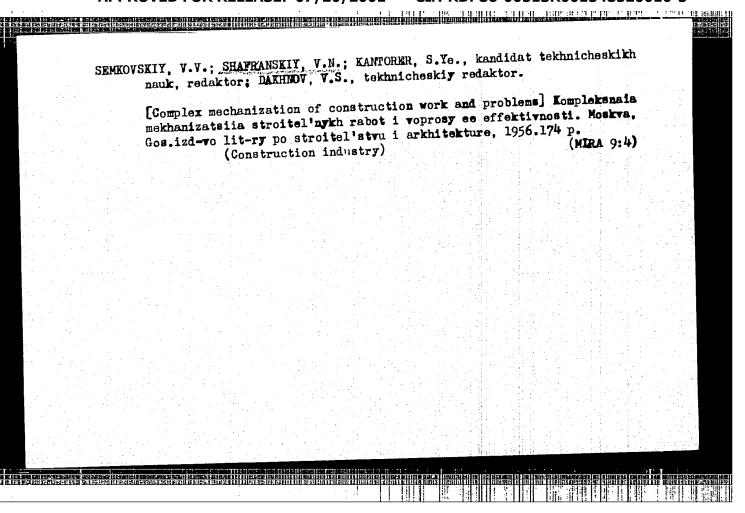
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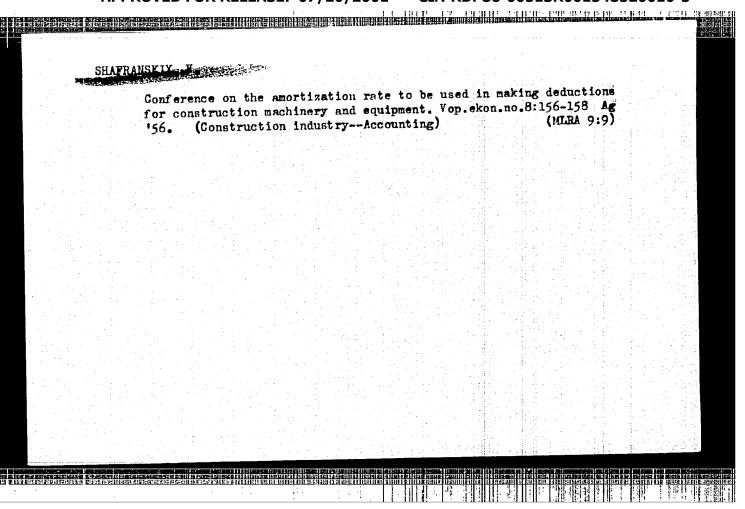
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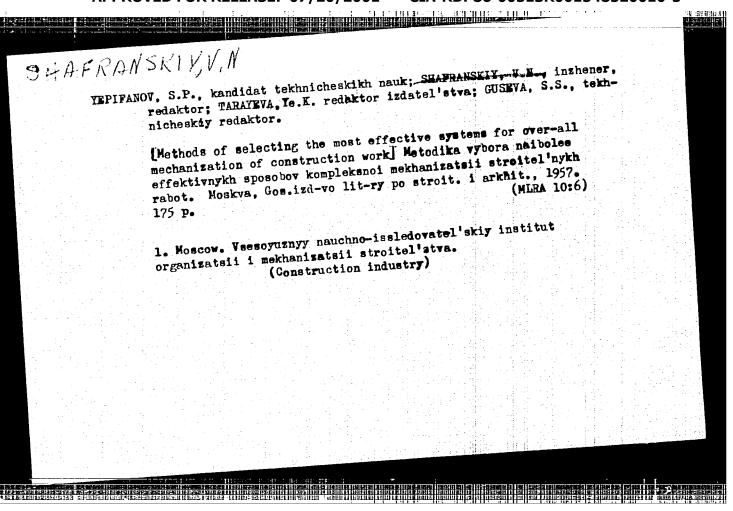


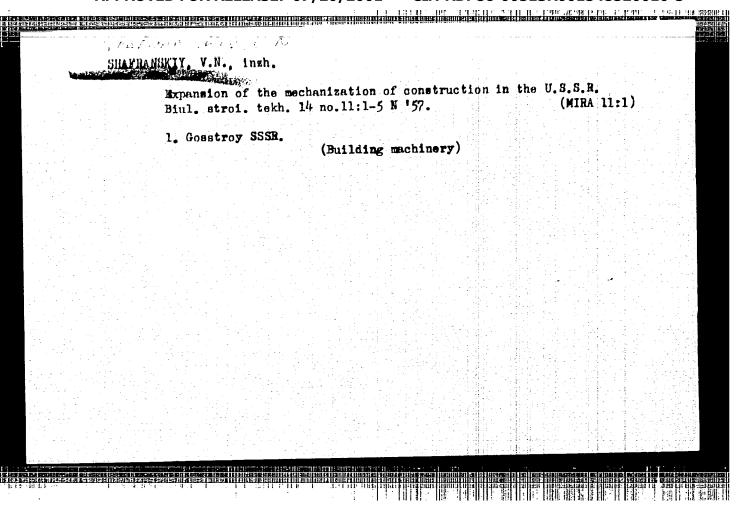








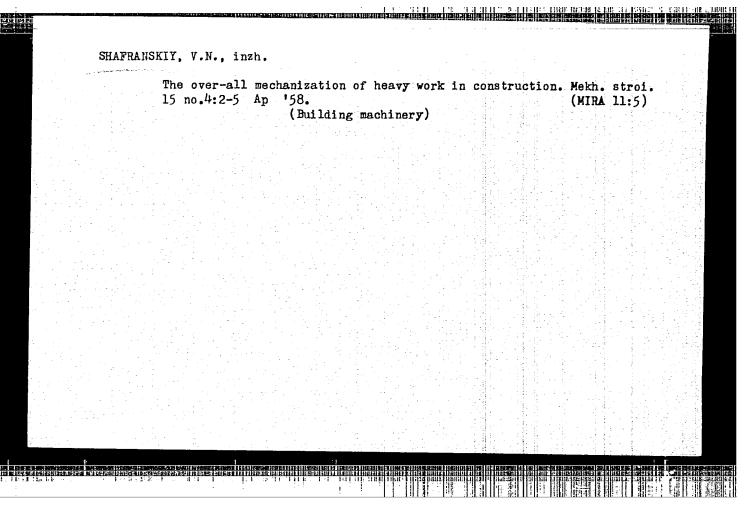




SOKOLOV, K.M.; YEVSTAFEYEV, S.V.; ROSTOTSKIY, V.K.; GRECHIN, N.K.; STANKOVSKIY, A.P.; BAUMAN, V.A.; BERKMAN, I.L.; BORODACHEY, I.P.; BOYKO, A.G.; VALUTSKIY, I.I.; VATSSLAVSKAYA, L.YA.; VOL'FSON, A.V.; DOMBROVSKIY, N.G.; YEGNUS, M.YA.; YEFREMENKO, V.P.; ZIMIN, P.A.; IVANOV, V.A.; KOZLOVSKIY, A.A.; KOSTIN, M.I.; KRIMERMAN, M.N.; LINEVA, M.S.; MERENKOV, A.S.; MIROPOL'SKAYA, N.K.; PETROV, G.D.; REBROV, A.S.; ROGOVSKIY, L.V.; SMIRNOV, G.YA.; SHAFRANSKIY, V.N.; SHIMANOVICH, S.V.; SHNRYDER, V.A.

Bygenii Richardovich Peters; obituary; Mekh. stroi. 15 no.1:3 of cover Ja 158.

(Peters. Evgenii Richardovich, 1892-1957)



Market	SHAFRAI		I., inzh.					
		Mekh.str	oi. 17	cmining sta no.2:11-14 machinery	F 160	).	n constructio (MIRA 13:8	n. )

SEMKOVSKIY, V.V.; SHAFRANSKIY, V.N.; KAZARINOV, V.M., inzh., red.;
MORSKOY, K.L., red.izd-ve; BOROVNEV, U.K., tekhn.red.

[Over-all mechanization in construction and its efficiency]
Komplekanaia mekhanizataila v stroitel'stve i ee effektivnost'.
Izd.2., dop. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i
stroit.materialam, 1960. 215 p.

(Building machinery)

(Building machinery)

KANTORER, Solomon Yevseyevich; SHAFRANSKIY, V.N., red.; MORSKOY, K.L., red. izd-va; GOL'EEGG, T.M., tekhm. red.

[Methods of proving the efficiency of using machinery in construction] Metody obosnovania effektivnosti primeneniia mashin v stroitel'stve. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 341 p.

(Building machinery)

(Building machinery)

KANTORER, S. Ye., kand.tekhn.nauk; SHAFRANSKIY, V.N., inzh., red.;

RUDAKOVA, N.I., tekhn.red.

[Amortization and the depreciation of machinery in the construction industry] Amortizatial imoral uyi iznos mashin v stroitel stive. Moskva, Gos.izd-vo lit-ry po stroit. arkhit. i stroit.materialam, 1959. 90 p. (MIRA 15:2)

(Construction industry--Finance)

KANTORER, S.Ye., kand. tekhn. nauk; SHAFRANSKIY, V.N., inzh., otv. red.;
GERASIMOVA, G.S., red. izd-va; NAUMOVA, G.D., tekhn. red.

[Instructions for analyzing the economic effectiveness of introducing mechanization and automation in construction]Ukazania po raschetam ekonomicheskoi effektivnosti vnedrenia mekhanizatsii i avtomatizatsii v stroitel'stve. Moskva, Gosstroitzdat, 1962. 133 p.

(MIRA 16:1)

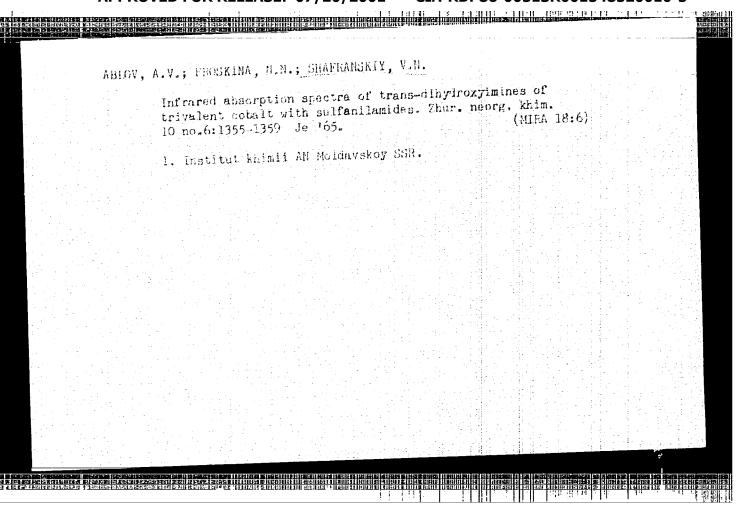
1. Akademiya stroitel'stva i arkhitektury SSSR. Institut ekonomiki stroitel'stva.

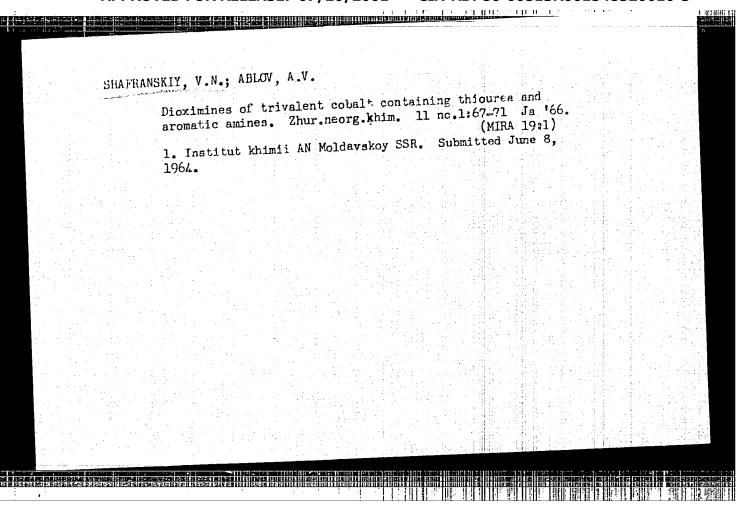
(Automation) (Construction industry)

Complex compounds	of trivale	nt cobalt with	dimeth	vlglvorime a	nd .	
sulfanilamides.	Zhur neorg.	khim. 7 no.7:1	521-152	4 Л. 162。	16:3)	
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SHAFRANSKII, V.N.; CHERESHNEV, V.A., nauchn. red.; SHITOVA, L.N., red.; SHEVCHENKO, T.N., tekhn. red.

[Determining the new for construction equipment] Opredelenie potrebnosti v stroitel'nykh mashinakh. Moskva, Gosstroitzdat, 1963. 92 p. (MIRA 17:2)



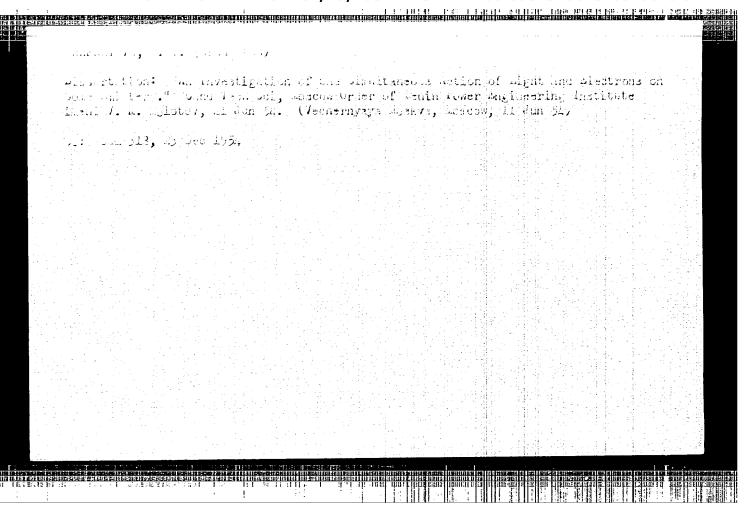


Shafranskiy, V. P.

"An evaluation of types of lupine for green fodder and seed and the outlook for cultivating lupine in Leningrad Oblast." All-Union Academy of Agricultural Sciences usemi V. I. Lenin. All-Union Sci Res Inst of Plant Growing. Leningrad, 1956 (Dissertation for the degree of Candidate in Agricultural Sciences)

Kaizhnaya latopis
No. 15, 1956. Hoscow

[Supervision			GOV, Yu.I.; RLOVA, I.A.	医排放 化二醇		
raboty elekt	romykh vyc	hislitel'nyk	h mashin. N	oskva, 1 (MIRA 1	965.48 p	
1. Akademiya	nauk SSSR.	Vychislitel	'nyy tsenti			



FD-3173

USSR/Physics - Conductivity

Card 1/1

Pub. 153-3/21

Author

Shafratova-Ekertova, L. I.

Title

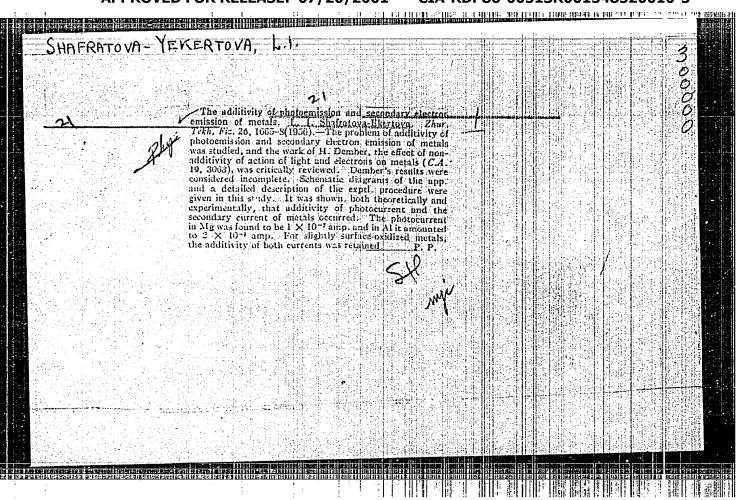
The question of the conductivity of an antimony-cesium layer

Periodical:

Zhur. tekh. fiz., 25, No 8 (August), 1955, 1357-1363

Abstract : The author's purpose is to throw some light on the physical nature of the phenomenon resulting from the application of a voltage to an antimony-cesium layer. A great increase in current in the layer is noted, more than can be explained by heating. A number of measurements give dependences of current: upon time, potential, current across the layer and degree of polarization. These are expressed graphically, and the author uses the graphs to present her interpretation of the phenomenon. She states that the increase in current is based upon an unusual type of polarization of the layer. A film is formed around the layer which permits current to flow out but not in.

Submitted: September 4, 1954



The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr. 1954)

Name

Title of Work

Shafrin, A. I. "Cotton Growing"

Ministry of Agriculture Usbek
Textbook

SSR

SO: W-30604, 7 July 1954

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing. M-5

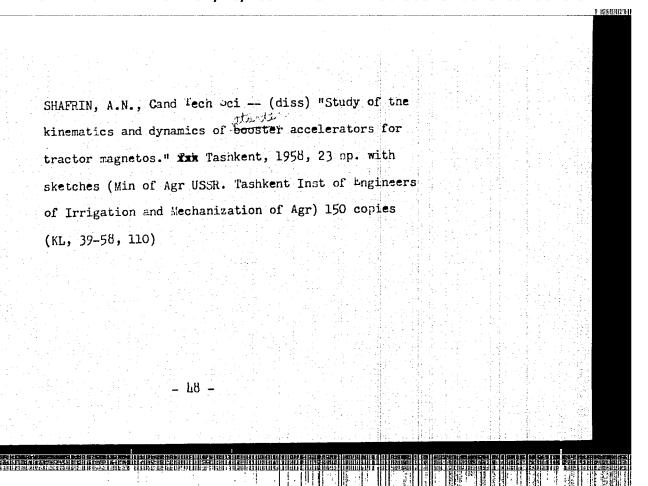
Abs Jour : Ref Zhur - Biol., No 7, 1958, 29888

Author : Molchanov, D.M., Lysenko, F.F., Rodimtsev, I.A., Rzhevskiy, G.K., Shafrin, A.N.

Inst :Title : Cotton Sowing Times in Uzbekistan.

Orig Pub : Sots. s. kh. Uzbekistana, 1957, No 3, 7-10

Abstract : No abstract.



DADARAYEV, A.D., akademik, glavnyy red.; KANASH, S.S., akademik, zamestitel' glavnogo red.; UCHEVATKIN, F.I., otv.red.; AVTONOMOV, A.I., red.; ALEKSANDROV, A.S., kand.sel'skokhoz.nauk, red.; ARUTYUNOVA, L.G., kand.biol.nauk, red.; VELIYEV, I.M., kand.sel'skokhoz.nauk, red.; KASSIRSKIY, A.A., red.; KRASICHKOV, I.P., akademik, red.; MAKSIMENKO, I.K., skademik, red.; MALITSEV, A.M., red.; MANNANOV, N.M., akademik, red.; MUKHAMEDZHANOV, M.V., akademik, red.; SADYKOV, S.S., red.; STRAUMAL, B.P., kend.sel'skokhoz.neuk, red.; SHAFRIN, A.N., zasluzhennyy agronom Uzbekskoy SSR, red.; KURANOVA, L.I., red.; MEDOVAR, TS.I., red.; SOROKINA, Z.I., tekhn.red.

[Materials of the All-Union Conference on Cotton Breeding and the Production of Cottonseed] Materialy Vsesoiuznogo soveshchaniis po selektsii i semenovodstvu khlopchatnika. Tashkent, Uzbekskaia (MIRA 13:11) Akad.sel'khoz.nauk, 1960. 383 p.

1. Vsesoyuznoye soveshcheniye po selektsii i semenovodstvu khlopchatnika. 2. Uzbekskaya Akademiya sel'skokhozyayatvennykh nsuk (for Dadabayev, Mannanov, Mukhamedzhanov). 3. Vsesoyuznaya akademiya sel'skokhoz.nauk im. V.I.Lenina (for Kanash). 4. AN UzSSR (for Kanash, Mukhamedzhanov). 5. Chlen-korrespondent Uzbekskey Akademii sel!skokhoz.nauk (for Uchevatkin). 6. Chleny-korrespondenty W UzSSR (for Avtonomov, Mal'tsev, Sadykov). 7. AN Tadzh. SSR (for Krasichkov, Maksimenko).

(Cottonseed) (Cotton breeding--Congresses)

SOKOLOV, F.A., kand. sel'khoz. nauk; KOKUYEV, V.I., kand. sel'khoz. nauk; SHAFRIN, A.N., zasl. agr. Uzb. SSR; KONDRATTUK, V.F.
kand. sel'khoz. nauk; MALINKIN, N.F., doktor sel'khoz.
nauk; YEREMENKO, V.Ye., doktor sel'khoz. nauk [deceased];
MEDNIS, M.P., kand. biol. nauk; FILIPPENKO, G.I., kand.
sel'khoz. nauk; USPENSKIY, F.M., kand. biol. nauk;
SOLOV'YEVA, A.I., kand. sel'khoz. nauk; PRUGALOV, A.M.,
kand. sel'khoz. nauk [deceased]; ZAKIROV, T.S., kand.
sel'khoz. nauk; FREEKIN, V.M., zasl. mekhanizator UzSSR;
GORELIK, I.M., red.; ABBASOV, T., tekhn. red.

[Cultivation practices in cotton growing] Agrotekhnika
khlopchatnika. Tashkent, Gos.izd-vo UzSSR, 1963. 326 p.
(MIRA 17:1)

L 52763-65 EWG(j)/EWT(1)/EWT(m)/EPF(c)/FCC/EPR/EWP(t)/EWP(b)/EWA(h Po-4/F2-4/Pr-4/Pa-4/Pae-2/Pt-7/Peb/Pi-4 I39(c) JD/GS/GW UR/0000/64/000/000/0245/0250 ACCESSION NR: AT5011179 AUTHOR: Berezin, V. M.; Shafrin, Yu. A. TITLE: Vertical distribution of ozone during ascending and descending currents in the atmosphere SOURCE: Mezhvedomstvennoye soveshchaniye po aktinometrii i optike atmosfery. 5th, Moscow, 1963. Aktinometriya i optika atmosfery (Actinometry and atmospheric optics); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1964, 245-250 TOPIC TAGS: ozone concentration, troposphere, stratosphere, ascending current, descending current, ozone diffusion, photochemical equilibrium ABSTRACT: The authors have investigated the vertical distribution of ozone using a continuity equation expressing the law of conservation of mass, which makes it possible to take into account any number of ozone-forming and ozone-destroying factors. The full equation is presented and then simplified for the case when latitudinal and meridional exchange are not taken into account. Emphasis is on the study of the vertical distribution of ozone during ascending and descending currents in the atmosphere, taking into account turbulent diffusion and the coef ficient & 6 is a coefficient equal to the inverse value of the time of half-

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ACCESSION NR: AT5011179

restoration of photochemical equilibrium). The data used were observations of the vertical distribution of ozone over Arosa, Switzerland, in August 1958. The 6-50 km atmospheric layer was divided into 22 2-km layers. Formulas are presented which satisfactorily describe possible changes in the vertical distribution of ozone. It was found that turbulent diffusion in combination with vertical velocity exerts an appreciable influence on the decrease in total ozone content in the case of ascending currents and the increase in the case of descending currents. In the absence of vertical velocity, the diffusion coefficient exerts no appreciable influence on ozone distribution. The effect of turbulent diffusion nowhere exceeds the effect of vertical velocity, but is a very appreciable supplement to it. The presence of ascending and descending currents in anticyclones leads to an ozone accumulation aloft and a decrease in its concentration below; in cyclones, the effect is opposite. This can cause the development of a horizontal gradient of the total ozone content over large areas and also a horizontal gradient of its individual layers. Orig, art. has: '7 formulas, 1 figure and 1 table.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUEMITTED: 25Nov64

ENCL: 00

SUB CODE: ES

NO REF SOV: 005

OTHER: 003

Card 2/2

APPROVED FOR RELEASE: 07/20/2001

CIA-RDP86-00513R001548520010-5"

ACCESSION NR: AP4013147

s/0203/64/004/001/0131/0136

AUTHORS: Berezin, V. M.; Shafrin, Yu. A.

TITLE: Computing the vertical distribution of atmospheric ozone

SOURCE: Geomagnetizm i aeronomiya, v. 4, no. 1, 1964, 131-136

TOPIC TAGS: ozone, atmospheric ozone, vertical distribution, troposphere, stratosphere, turbulence coefficient, anticyclone, cyclone, horizontal ozone gradient

ABSTRACT: The authors have based their work on average vertical ozone distribution above Arosa. The difference scheme

$$\frac{\rho_{l,l+1} - \rho_{l,l}}{l} - \frac{D_{l}(\rho_{l+1,l} - 2\rho_{l,l} + \rho_{l-1,l})}{h^{2}} - (D_{s} - w)_{l} \frac{\rho_{l+1,l} - \rho_{l-1,l}}{2h} + (\alpha + c)_{l}\rho_{l,l} = \alpha\rho_{0l},$$

(where  $\ell$  and h represent steps of time and the coordinate, i and j the coordinate and time number of the step,  $\ell$  the ozone density, D the coefficient of turbulent diffusion, w the vertical velocity of the air, and  $\ell$  = 1/ $\ell$  is a coefficient equal

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ACCESSION NR: AP4013147

to the reciprocal value of time for half restoration of photochemical equilibrium satisfactorily describes possible changes in vertical ozone distribution. The is confirmed particularly by sample conputation of ozone distribution with zero initial distribution. The coefficient of turbulent diffusion in combination with vertical velocity has a fundamental effect on diminution of total ozone content during ascending currents and on increase during descending currents. Computations have shown that, when there is no vertical velocity, diffusion has no noticeable effect on the distribution of ozone. When turbulence is insignificant in the troposphere and lower stratosphere during ascending movements, two secondary maximums of concentration appear at low altitudes. These maximums fuse into one, weakly defined, when turbulence increases. Descending movements, especially during increased turbulence, do not favor development of secondary maximums. The presence of ascending and descending currents in cyclones and anticyclones leads to accumulation of ozone upward and decrease in ozone downward in the cyclone. The reverse is true in the anticyclone. This may give rise to a horizontal ozone gradient over extensive regions and also to a horizontal gradient within individual layers. Orig. art. has: 2 figures, 2 tables, and 7 fermulas.

Card 2/3

ACCTESSION MR: AP4013147

ASSOCIATION: Moskovskiy gosudarstvenny\*y universitet, Fizicheskiy fakul'tet (Moscow State University, Physics Department)

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AUTHO	R: Shafrin, Yu. A.				B	
TITLE:	Large-scale turbuler	t transport and	meridional cir	culation of <u>ozor</u>	ie 17	
SOURCE	: AN SSSR, Izvestiy	a. Fizika atmos	fery i okeana,	v. 1, no. 7, 19	65, 742-749	
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ACCESSION NR: AP5019156  role of advection becomes malready dominant role of verauthor emphasizes that future liminary research in the file equatorial regions; 2) nonset theory; 3) wider uses of the investigation methods; 4) deturbulence and other coefficience ozone distributions. "The area of the coefficience of the coeffic	nore important than rtical motions is ever re successful ozone ld of 1) ozone decont teady-state application existing conservative velopment of methodients; and 5) incorportation thanks A. Khaluring the calculation	in further end forecasting rapposing factor on of the sem re-component ds for the function of ozo. Khrgian for is." Orig. a	equires s in the iempir vertica ctional cur valuablet. has:	extensive moderate cal turbu l flow an approximate and seconsulting the consulting consu	e pre- e and lence d propagat action of longitudin actions; an ulas and	i(m
ASSOCIATION: Tsentral'na Observatory)		observatori		ral Aero	logical	
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L 34831-60 FUT. 1)/EWT(m)/FCC/EWP(t)/ETI IJP(c) JD/GW
ACC NR: AP6022223 SOURCE CODE: UR/0362/66/002/006/0647/0655
AUTHOR: Shafrin, Yu. A.
ORG: Central Aerological Observatory (Tsentral'naya aerologicheskaya observatoriya)
TITLE: Statistical characteristics of the ozonosphere  SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 2, no. 6, 1966, 647-655
TOPIC TAGS: ozone, troposphere, stratosphere, ozone dispersion, structural function, correlation function  ABSTRACT: The circulation of ozone in the middle and lower stratosphere can be determined from ozone measurements made by instruments mounted on artificial satellites. Investigations of the formation and decomposition of ozone can be made with temporary spectra for total ozone content and for its vertical distribution. The homogeneity and isotropy of the total ozone were determined from the mean yearly dispersion of ozone in the latitude belt from 30°—60°, where the dispersion is approximately constant. The dispersion diminishes rapidly to the south and increases to the north of the belt. Data from an ozonometric station network processed with similar methods were used for computation of the structural function of ozone distribution. The network stations cover the European Continent. The structural function is computed for two seasons: winter and spring with maximum variations, and autumn with minimum variations. Computed values of the structural function for Cord 1/2  UDC: 551,510,534

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ACC NR: AP6022223

winter and spring show great dispersion which contradicts the hypothesis of the homogeneous distribution of ozone. The vertical distribution of ozone was assumed to be homogeneous, and the correlation function and the potential temperature in the troposphere and stratosphere were computed. The variability of ozone density in the troposphere is great compared with the stratosphere. Temporary variations in ozone density can be determined from spectral analysis of the total quantity of ozone. Temporary autocorrelational functions were computed for six stations in the Northern Hemisphere and represented graphically. Five curves are analogous, and only the curve of the tropical station differs. The author expresses thanks to G. P. Satarova for help. Orig. art. has: 5 figures and 4 formulas. [EG]

SUB CODE: 04/ SUBM DATE: 03Feb66/ ORIG REF: 014/ OTH REF: 006/ ATD PRESS:5/32

L 23130-66 EWA(h)/EWT(1)/FCC ACC NR: AP6006664 SOURCE CODE: UR/0203/66/006/001/0105/0112 AUTHOR: Shafrin, Yu. A. ORG: Central Aerological Observatory (Tsentral naya aerologicheskaya observatoriya) TITLE: Local peculiarities in the vertical distribution of ozone/2 SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 1, 1966, 105-112 TOPIC TAGS: ozone, atmosphere, dynamic system, turbulent flow, photochemistry ABSTRACT: This paper completes the work of V. M. Berezin and Yu. A. Shafrin (Geomagn. i aeronomiya, 1964, 4, No. 1, 131; Meteorol. i gidrol., 1965, No. 6, 23) and seeks to define the peculiarities in vertical distribution of ozone in equatorial and polar zones as these depend on dynamic and photochemical characteristics of these latitudes. The author takes as a basis for computation the equation of continuity for a nonconservative light ingredient: Card 1/3 UDC : 550.388

L 23130-66 ACC NR: AP6006664

$$\frac{\partial \rho}{\partial t} + \frac{\partial (\rho u)}{\partial x} + \frac{\partial (\rho v)}{\partial y} + \frac{\partial (\rho w)}{\partial z} =$$

$$= \alpha (\rho_0 - \rho) + \frac{\partial}{\partial z} \left( D^z \frac{\partial \rho}{\partial z} \right) + \frac{\partial}{\partial y} \left( D^y \frac{\partial \rho}{\partial y} \right) + \frac{\partial}{\partial x} \left( D^z \frac{\partial \rho}{\partial x} \right),$$

where O is the density of ozone, w,u,v are the vertical and horizontal air velocities respectively, O is the coefficient of photochemical equilibrium, o is the equilibrium photochemical density of ozone, and D,D,D,D are the coefficients of turbulent exchange along the coordinate axes. Various dynamic and turbulent models of the atmosphere are considered: with constant D, variable D, steadily increasing D, steadily decreasing D. In the equatorial zone the maximal vertical distribution of ozone is displaced upward, from 26 km to as much as 31.5 km. The vertical velocity ranges from 3.5 to 8 cm/sec in these models. The following effects of turbulence are noted: turbulence that is constant or that increases with altitude favors the development of a weak secondary maximum (perhaps two) at 18-19 km; variable turbulence weakly smooths the secondary maximum without changing the shape of the distribution curve; turbulence that declines with altitude increases ozone concentration in the upper layers and decreases the concentration in the lower layers of the atmosphere. In the polar zone downward displacement with downward currents is less clearly defined than upward displace-

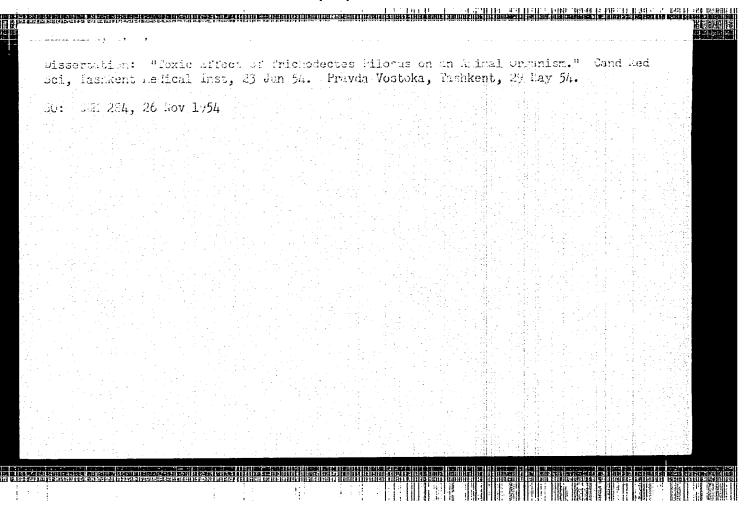
Card 2/3

L 23130-66
ACC NR: AP6006664

ment with upward movements. The main difference between polar and equatorial models lies in the 21--12 km zone, where the photochemical effect increases sharply. Comparison with experimental data shows that the model for ascending movements predicts observed results rather well, but that for descending movements it gives less reliable results, especially in polar regions. In conclusion, the author expresses his thanks to R. A. Timasheva for her aid in the computations.

Orig. art. has: 3 figures, 2 tables, and 5 formulas.

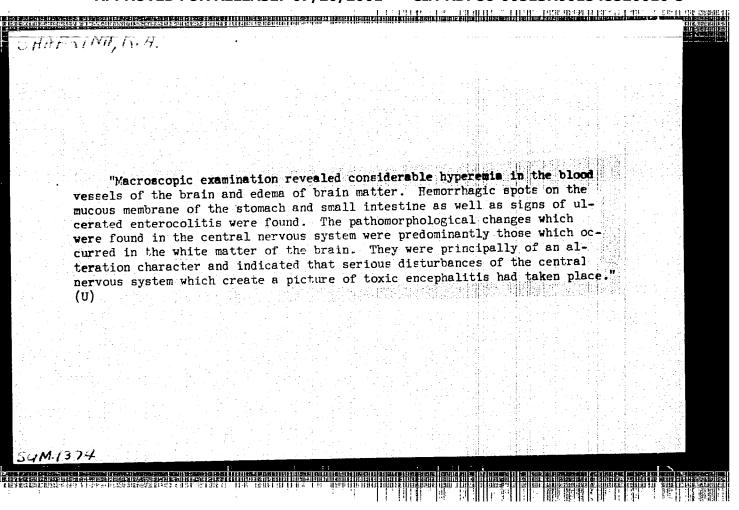
SUB CODE: Old SUBM DATE: OSJan65/ ORIG REF: 007/ OTH REF: Oll



"Experimental Investigation of the Toxic Action of the Seeds of Tricholesma Incanum," by K. A. Shafrina, Za Sotsialisticheskoye Zdravookhraneniye Uzbekistana, 1955, 4, 61-65 (from Sovetskoye Meditsinskoye Referativnoye Obozreniye, Normal'naya i Patolcgicheskaya Fiziologiya, Biokhimiya, Farmakologiya i Toksikologiya, No 27, 1956, Abstract by L. Strugach. p 126)

"Experiments were conducted on 55 white rats and 7 dogs. The crushed seeds of Trichodesma incanum were administered to the animals with food. Even comparatively small doses caused serious affections of the central nervous system, creating a clinical picture of toxic encephalitis. The intensity of the toxic action of the seeds depended on the dose which was administered, the individual characteristics of the animals, and the duration of the intoxication. The symptoms of intoxication did not become apparent immediately. In the initial period of intoxication a rise in the irritablilty of the animals was noted. In the later stages the irritability was replaced by symptoms of a depression of the central nervous system: adynamia, somnolence, and diminution of conditioned reflex activity. Shortly before the animals died paresis of the posterior extremities developed. A drop in the hemoglobin content and diminution in the number of erythrocytes and reticulocytes were noted in the dogs poisoned by Trichodesma. The color index was low. An acutely expressed leucopenia with a corresponding increase in the number of lymphocytes and diminution in the number of granulocytes developed. All the dogs died.

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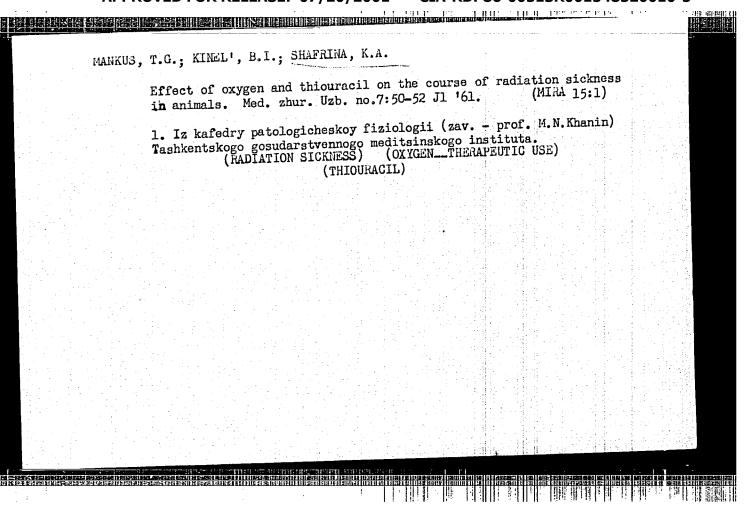


KHANIN, M.N., prof.; BURSHTEYN, Ch.I., dotsent; KARIMOV, Z.N., dotsent;
KINEL', V.I., assistent; MANKUS, T.G., assistent; SHAFRINA, K.A.,
assistent; RASULEV, Sh.I., assistent; PANKOVA, L.P., assistent

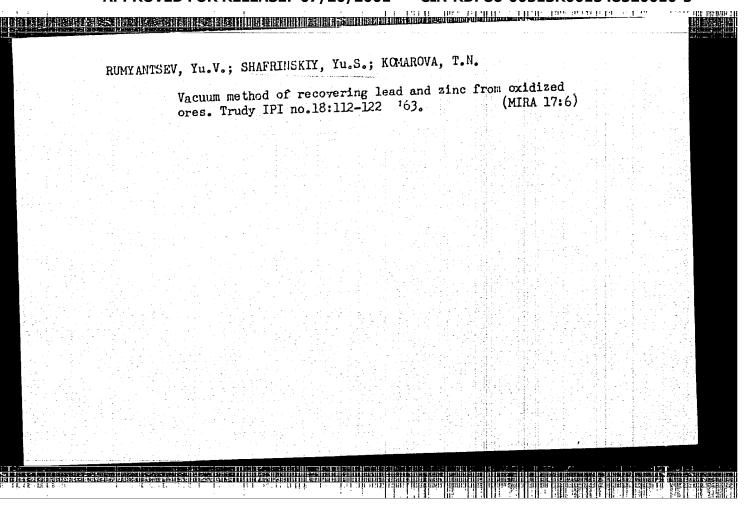
Development of radiation sickness in animals following X-irradiation.
Med.zhur. Uzb. no.ll:ll-16 N '60. (MIRA 14:5)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. M.N.Khanin)
i kafedry rentgenologii i meditsinskoy radiologii (zav. - prof.
S.A.Molchanov) Tashkentskog ogsudaratvennogo meditsinskogo instituta.

(RADIATION SICKNESS)

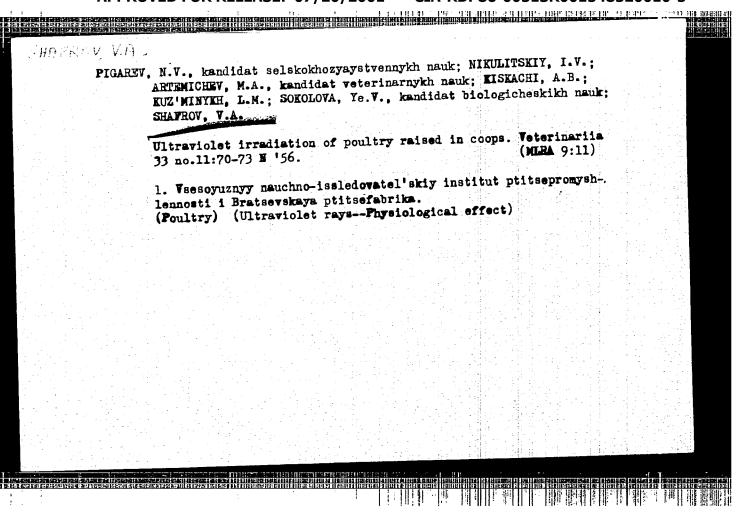


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1. NIKOLAYEV, A. A.; SHAPROV, V. A.
2. USSR (600)
4. Trufanov, A. V.
7. This book is a failure ("Vitamins in poultry raising." A. V. Trufanov, F. YE. Golyarkin. Reviewed by A. A. Nikolayev, V. A. Shafrov), Ptitsevodstvo, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.



COUNTRY

. USSR

Farm Animals.

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Poultry.

: RZnBiol., No. 6,

1959, No. 25911

AUTHOR

: Shafrov, V. A.; Pigarev, N. V.

EST.

An Experiment on Feeding Hens with Gramulated

Mixed Feeds.

ORIG. PUB.

: Ptitsevodstvo, 1958, No 1, 8-10

ABSTRACT

At the Bratsevskaya Poultry Plant an experiment was devised with three groups of 5-month old pullets of the same breed. In the first group's ration the grammlated mixed feed amounted to 54 percent of nutritive value, in the second group's ration to about 76 percent. The third group was the control group. According to their nutritive value as such, the rations for all three groups were identical. In the first group egg laying was 19.9 percent higher,

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CATEGORY

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RZhBiol., No.

1959, No.

AUTHOR INST.

TITLE

ORIG. PUB.

ABSTRACT

in the second group 12.9 percent higher than in the control group. In the first group 22 percent less feeds were expended per 10 eggs, in the second group 18 percent less than in

the control group.

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